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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/508,966	03/15/2005	Andrew Forbes	424662008900	7610	
25227 MODDISON A	7590 01/09/2008 & FOERSTER LLP		EXAMINER		
1650 TYSONS BOULEVARD			ALI, MOHAMMAD M		
SUITE 400 MCLEAN, VA 22102			ART UNIT	PAPER NUMBER	
			3744		
			MAIL DATE	DELIVERY MODE	
			01/09/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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·		Application N	lo.	Applicant(s)				
Office Action Summary		10/508,966		FORBES ET AL.				
		Examiner		Art Unit				
		Mohammad M		3744				
Period fo	The MAILING DATE of this communication ap r Reply	pears on the co	ver sheet with the c	correspondence addre	ess			
A SHO WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR REPLEMENTED IN THE MAILING DISTRICT STATES IN THE MAILING DISTRI	DATE OF THIS (136(a). In no event, h will apply and will expert, cause the application	COMMUNICATION owever, may a reply be tin oire SIX (6) MONTHS from on to become ABANDONE	N. nely filed I the mailing date of this comm ED (35 U.S.C. § 133).				
Status		,						
1)⊠	Responsive to communication(s) filed on 11 E	December 2007						
,	This action is FINAL . 2b) This action is non-final.							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	closed in accordance with the practice under a	<i>Ех рапе Quayi</i>	э, 1935 С.D. 11, 4:	53 U.G. 213.				
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-12 and 14-21 is/are pending in the 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-12 and 14-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	awn from consid						
Applicati	on Papers							
	The specification is objected to by the Examine	er.						
• —	The drawing(s) filed on is/are: a)☐ acc		objected to by the	Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be h	eld in abeyance. Se	e 37 CFR 1.85(a).	*			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E							
Priority u	nder 35 U.S.C. § 119							
12)[/ a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Bureatee the attached detailed Office action for a list	nts have been re nts have been re prity documents au (PCT Rule 17	eceived eceived in Applicat have been receive 7.2(a)).	ion No ed in this National St	age			
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		☐ Interview Summary Paper No(s)/Mail D ☐ Notice of Informal F ☐ Other:	oate				

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 10-11 and 14-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Kiczek (5,220,803). Kiczek discloses a refrigerating apparatus for chilling an object (food), the refrigerator apparatus forming a part of refrigerator 28 and comprising a chamber having a longitudinal axis, an inlet 16/22 and outlet 32 spaced along the longitudinal axis, a device generating a fluid flow though an inlet 22 within the chamber and a structure for causing the fluid flow to follow a helical path about the longitudinal axis within the chamber between the inlet 22 and the outlet 32 (see column 2, lines 52-55) and around the object (food) to be chilled, the fluid being in contact with the object(food). See Fig. 1, column 1, line 61 to column 2, line 59.

Claims 1--11 and 14-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishino et al., (JP 3009600 U). Ishino et al., disclose a refrigerating apparatus for chilling an object 6, the refrigerating apparatus forming a part of refrigerator 3 and comprising a chamber having a longitudinal axis, an inlet on top of a duct 8b and outlet 14b spaced along the longitudinal axis, a device/fan 11 generating a fluid flow though an inlet within the chamber and a structure for causing the fluid flow to follow a helical

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path 7b about the longitudinal axis within the chamber between the inlet on top of the duct 8b and the outlet 14b and around the object 6 to be chilled, the fluid being in contact with the object 6; an evaporator 2; a support is provided for supporting the object 6 spaced from the wall/casing 1 of the chamber (the support is not shown but inherent). See Fig. 1A and enclosed machine translation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishino et al., disclose the invention substantially as claimed as stated above except plurality of chambers each chamber housing an object to be chilled. The plurality of chambers with plurality of housing for holding multiple objects is a duplicate use of a single housing for holding multiple single objects and it will be an obvious repetition of the claim with single object.

Response to Arguments

Applicant's arguments with respect to claim1-12 and 14-21 have been considered but are not persuasive. The Applicant argued, :The Examiner does not identify the structure by which the fluid is caused to flow a helical path, nor does the Examiner indicate that Kiczek discloses the corresponding method step. The Examiner

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disagrees. The refrigerator of Kiczek is of mechanical spiral type refrigerator (see column 2, lines 12-13). The cryogen vaporizing inside of the immersion freezer 10 will flow out of the discharge 22 and into the housing 28 (see column 2, lines 22-24), Again the the exhaust fan is so constructed that equal volume of cryogen are admitted through the gas inlet 49 of the freezer 26 and discharged from outlet 32 of the freezer 26. Flow of vaporized cryogen is shown by arrows 50. (see column 2, lines 27-31). Although there is no numeral 50 one can easily see the two gas inlets 32 and 49 and the gas exit 32 and the arrows (plural arrows) in between the gas inlets and outlet indicating the spiral flow pathof the cryogen fluid as well as the same spiral floe path of the food product. Again, the vaporized cryogen from the immersion freezer 10 is directly injectd into the mechanical refrigeration unit 26 for contact with the food to efficiently and effectively utilize both the vaporized cryogen and the air recalculating inside the freezer (spiral type freezer). Regarding method step for placing an object to be chilled in a chamber is being done by the conveyor in the mechanical spiral refrigerator. The further disclosure of the method claims are same as the apparatus claim which are anticipated by Kiczek as explained above. Therefore, the rejections are ok.

The Applicant further argued, the fluid flow produced in Ishino does not come into contact with object to be chilled as claimed---". The Examiner again disagreed. The object of the claimed invention as seen Fig. 1, 3 and 4 is a cylindrical bottle against which the helical fluid is effected and accordingly cooling the bottle containing food stuff by touching the cooling fluid outer surface of the cylindrical bottle. In the same way Ishino's helical cooling fluid flow cooling the cylindrical object 6 by touching the outer

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surface of cylindrical object 6 by the cooling fluid. The claimed cylindrical object bottle does not make any difference from the cylindrical object of Ishino. Regarding claim 12 for plurality of chambers isnothing but an obvious duplication of a single chamber as disclosed by Ishino. Therefore, rejections are ok. **THIS ACTION IS MADE FINAL.**Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad M. Ali whose telephone number is 571-272-4806. The examiner can normally be reached on maxiflex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on 571-272-4808. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MOHAWWAD W. NE